

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

DECLARATION, POWER OF ATTORNEY, AND PETITION

We, Fernando Gonzalez, Tyler A. Lowrey, Trung Tri Doan, Raymond A. Turi, and Graham R. Wolstenholme, declare: that we are citizens of the United States of America, and the United Kingdom, respectively; that our residences and post office addresses are 2579 South Flotilla Ave., Boise, Idaho, 83706, 2599 E. Plateau Drive, Boise, Idaho 83712, 1574 Shenandoah Road, Boise, Idaho 83712, 11364 W. Dallan Court, Boise, Idaho 83704, and 2945 East Rivernest Court, Boise, Idaho 83706, respectively; that we verily believe we are the original, first, and joint inventors of the subject matter of the invention or discovery entitled Novel Vertical Diode Structures with Low Series Resistance, for which a patent is sought and which is described and claimed in the specification attached hereto; that we have reviewed and understand the contents of the above-identified specification, including the claims referred to, and that we acknowledge the duty to disclose information which is material to the examination of this application in accordance with Section 1.56(a) of Title 37 of the Code of Federal Regulations.

We declare further that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful, false statements may jeopardize the validity of the application or any patent issuing thereon.

We hereby appoint as our attorneys and/or patent agents: H. ROSS WORKMAN, Registration No. 25,230; RICK D. NYDEGGER, Registration No. 28,651; DAVID O. SEELEY, Registration No. 30,148; KENT S. BURNINGHAM, Registration No. 30,453; TODD E. ZENGER, Registration No. 33,610; JONATHAN W. RICHARDS, Registration No. 29,843; MICHAEL F. KRIEGER, Registration No. 35,232; BRADLEY K. DeSANDRO, Registration No. 34,521; JOHN M. GUYNN, Registration No. 36,153; DANA L. TANGREN, Registration No. 37,246; ERIC L. MASCHOFF, Registration No. 36,596; GREGORY M. TAYLOR, Registration No. 34,263; KEVIN B. LAURENCE, Registration No. 38,219; BRIAN C. KUNZLER, Registration No. 38,527; JEFFREY L. RANCK, Registration No. 38,590; LENA I. VINITSKAYA, Registration No. 39,448; SUSAN K. MORRIS, Registration No. P-39,780; JONATHAN D. WOOD, Registration No. 38,076; and ROBYN L. PHILLIPS, Registration No. 39,330; BRYAN FARNEY, Registration No. 32,651; MICHAEL L. LYNCH, Registration No. 30,871; LIA M. PAPPAS, Registration No. 34,095; AND MICHAEL L. LYNCH, Registration No. 30,871, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith. All correspondence and telephonic communications should be directed to:

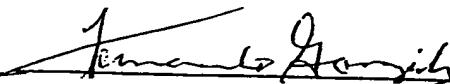
BRADLEY K. DESANDRO
WORKMAN, NYDEGGER & SEELEY
1000 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111

Wherefore, we pray that Letters Patent be granted to us for the invention or discovery

described and claimed in the foregoing specification and claims, declaration, power of attorney, and this petition.

Signed at Boise, Idaho, this 16th day of February, 1996.

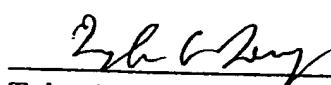
Inventor:



Fernando Gonzalez
2579 South Flotilla Ave.
Boise, Idaho 83706

Signed at Boise, Idaho, this 27 day of February, 1996.

Inventor:


Tyler A. Lowrey
2599 E. Plateau Drive
Boise, Idaho 83712

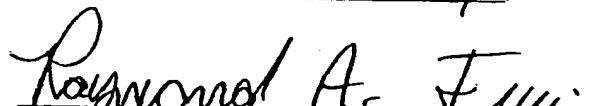
Signed at Boise, Idaho, this 27 day of Feb, 1996.

Inventor:


Trung Tri Doan
1574 Shenandoah Road
Boise, Idaho 83712

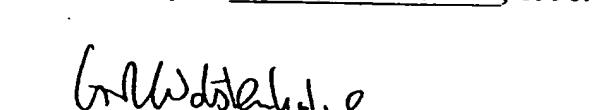
Signed at Boise, Idaho, this 16 day of FeBRUARY, 1996.

Inventor:


Raymond A. Turi
11364 W. Dallan Court
Boise, Idaho 83704

Signed at Boise, Idaho, this 27 day of FEBRUARY, 1996.

Inventor:


Graham R. Wolstenholme
2945 East Rivernest Court
Boise, Idaho 83706

PATENT APPLICATION
Docket: 11675.22.2.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Gonzalez et al.

Serial No.: Not Yet Assigned

Filed: February 16, 2000

For: METHOD OF MAKING VERTICAL
DIODE STRUCTURES

ASSOCIATE POWER OF ATTORNEY

The Honorable Commissioner of Patents
and Trademarks
Washington, D. C. 20231

Sir:

Please recognize CHARLES L. ROBERTS, Reg. No. 32,434; ERIC L. MASCHOFF, Reg. No. 36,596; RICHARD C. GILMORE, Reg. No. 37,335; DAVID L. GRIFFIN, Reg. No. P-44,136; R. BURNS ISRAELSEN, Registration No. 42,685; DAVID R. TODD, Reg. No. 41,348; JESÚS JUANÓS i TIMONEDA, Reg. No. 43,332; STEPHEN D. PRODNUK, Reg. No. 43,020, R. PARRISH FREEMAN, Jr., Reg. No. 42,556; PETER F. MALEN, Jr., Reg. No. P45,576; ADRIAN J. LEE, Reg. No. 42,785; KYLE H. FLINDT, Reg. No. 42,539; and ERIC M. KAMERATH, Reg. No. P46-081 as associate attorneys for me in the above-entitled application. Please address all future written and telephonic communications to:

BRADLEY K. DeSANDRO
WORKMAN, NYDEGGER & SEELEY
1000 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111
Telephone: (801) 533-9800
Facsimile: (801) 328-1707

Dated this 16 day of February 2000.

Respectfully submitted,


BRADLEY K. DeSANDRO
Attorney for Applicant
Registration No. 34,521

WORKMAN, NYDEGGER & SEELEY
1000 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111
Telephone: (801) 533-9800
Facsimile: (801) 328-1707

G:\DATA\WPDOCS3\prh\BKD\MICRON\assoc-poa_22-1-1.doc

WHEN RECORDED RETURN TO:

Workman, Nydegger & Seeley
1000 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111

PATENT APPLICATION
Docket No: 11675.22

ASSIGNMENT

We, and Fernando Gonzalez, Tyler A. Lowrey, Trung Tri Doan, Raymond A. Turi, and Graham R. Wolstenholme, of 2579 South Flotilla Ave., Boise, Idaho, 83706, 2599 E. Plateau Drive, Boise, Idaho 83712, 1574 Shenandoah Road, Boise, Idaho 83712, 11364 W. Dallan Court, Boise, Idaho 83704, and 2945 East Rivernest Court, Boise, Idaho 83706, respectively, have invented a method entitled Novel Vertical Diode Structures with Low Series Resistance, hereinafter called the "invention."

Preferred embodiments of said invention are disclosed in a United States patent application executed concurrently herewith by us and now identified as File No. 11675.22 of the law firm of Workman, Nydegger & Seeley, 1000 Eagle Gate Tower, 60 East South Temple, Salt Lake City, Utah 84111, and filed in the United States Patent and Trademark Office as Serial No. 08/609,505 on March 1, 1996. (We hereby authorize the attorneys of Workman, Nydegger & Seeley to insert said serial number and filing date when known.)

The Assignee, Micron Technology, Inc., a corporation of the State of Idaho, having a principal place of business at 8000 S. Federal Way, P. O. Box 6, Boise, Idaho 83707-0006, desires to secure the entire right, title and interest in said invention.

For good and valuable consideration paid to us by the Assignee, the receipt and sufficiency of which we hereby acknowledge, WE HEREBY ASSIGN TO THE ASSIGNEE:

The entire right, title and interest in said invention in the above-identified United States patent application and in all divisions, continuations and continuations-in-part of said application, or reissues or extensions of Letters Patent or Patents granted thereon, and in all corresponding applications filed in countries foreign to the United States, and in all patents issuing thereon in the United States and foreign countries.

The right to file foreign patent applications on said invention in its own name, wherever such right may be legally exercised, including the right to claim the benefits of the International Convention for such applications.

We hereby authorize and request the United States Commissioner of Patents and Trademarks, and such Patent Office officials in foreign countries as are duly authorized by their patent laws to issue patents, to issue any and all patents on said invention to the Assignee as the owner of the entire interest, for the sole use and behoof of the said Assignee, its successors, assigns and legal representatives.

We hereby agree, without further consideration and without expense to us, to sign all lawful papers and to perform all other lawful acts which the Assignee may request of us to make this Assignment fully effective, including, by way of example but not of limitation, the following:

Prompt execution of all original, divisional, substitute, reissue, and other United States and foreign patent applications on said invention, and all lawful documents requested by the Assignee to further the prosecution of any of such patent applications.

Cooperation to the best of our ability in the execution of all lawful documents, the production of evidence, nullification, reissue, extension, or infringement proceedings involving said invention.

This assignment and agreement shall be binding upon our heirs and legal representatives.

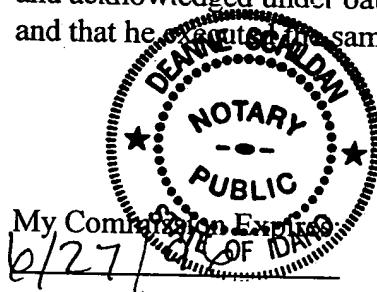
Dated this 16th day of Feb., 1996.

Fernando Gonzalez
Fernando Gonzalez

STATE OF IDAHO)

COUNTY OF Ada) : ss.

On Feb. 16, 1996, before me personally appeared Fernando Gonzalez, known to me to be the person described and who signed the foregoing Assignment in my presence and acknowledged under oath before me that he had read the same and know the contents thereof and that he executed the same as his free act and deed and for the purposes set forth therein.

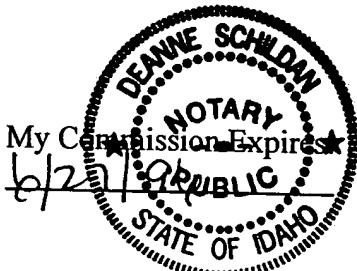


Deanne Schildan
NOTARY PUBLIC
Residing at Meridian, ID

STATE OF IDAHO)

COUNTY OF Ada) : ss.

On 27 February, 1996, before me personally appeared Tyler A. Lowrey, known to me to be the person described and who signed the foregoing Assignment in my presence and acknowledged under oath before me that he had read the same and know the contents thereof and that he executed the same as his free act and deed and for the purposes set forth therein.



Deanne Schildan
NOTARY PUBLIC
Residing at Meridian, ID

Trung Tri Doan
Trung Tri Doan

STATE OF IDAHO

)

) : ss.

COUNTY OF Ada

)

On Feb 27, 1996, before me personally appeared Trung Tri Doan, known to me to be the person described and who signed the foregoing Assignment in my presence and acknowledged under oath before me that he had read the same and know the contents thereof and that he executed the same as his free act and deed and for the purposes set forth therein.

Lori Murphy

NOTARY PUBLIC

Residing at Boise, ID

My Commission Expires:

6-12-98

Raymond A. Turi

Raymond A. Turi

STATE OF IDAHO

)

) : ss.

COUNTY OF Ada

)

On Feb 16, 1996, before me personally appeared Raymond A. Turi, known to me to be the person described and who signed the foregoing Assignment in my presence and acknowledged under oath before me that he had read the same and know the contents thereof and that he executed the same as his free act and deed and for the purposes set forth therein.



My Commission Expires:

6/17/98

Deanne Schilder

NOTARY PUBLIC

Residing at Meridian, ID

STATE OF IDAHO

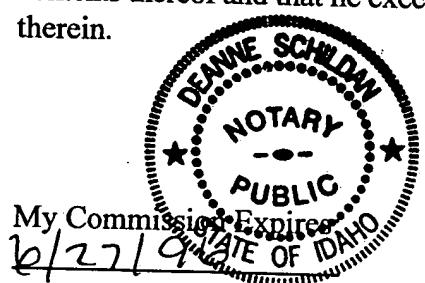
COUNTY OF Ada

Graham R. Wolstenholme

Graham R. Wolstenholme

)
): ss.
)

On Feb. 27, 1996, before me personally appeared Graham R. Wolstenholme, known to me to be the person described and who signed the foregoing Assignment in my presence and acknowledged under oath before me that he had read the same and know the contents thereof and that he executed the same as his free act and deed and for the purposes set forth therein.



Deanne Schildan

NOTARY PUBLIC

Residing at Meridian, ID

G:\DATA\WPDOCS2\MKK\MICRON\1167522.ASN